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Page 2

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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled. The listing of claims will replace all prior versions, and listing of claims in the application.

Listing of Claims

1. (Currently Amended) A receiver comprising:

a channel estimator to generate a maximum likelihood estimate of one or more channel taps from an equation involving a) said one or more channel taps, b) a priori probabilities of transmitted symbols in one or more samples of a received signal, wherein the a priori probabilities are based on type of the transmitted symbols, and c) one or more noise samples,
wherein said equation is an implicit equation for said one or more channel taps.

2. (Original) The receiver of claim 1, wherein said channel estimator is to generate said estimate for a batch of samples at a time.

3. (Original) The receiver of claim 1, wherein said channel estimator is to generate said estimate for a single sample at a time.

4. (Original) The receiver of claim 1, wherein said one or more channel taps correspond to one or more active fingers of a rake receiver.

5. (Original) A channel estimator comprising:

a symbol probability generator to generate a priori probabilities of transmitted symbols in a received signal;

a noise variance estimator to estimate a variance of noise corrupting said received signal; and

a channel tap estimator to generate a maximum likelihood estimate of one or more channel taps using the equation